

WHAT IS CLAIMED IS:

1. 1. A liquid ejection head, comprising:
 2. a plurality of liquid ejection units, each comprising:
 3. a casing body, having a first pair of faces extending in a first direction, and a second pair of faces connecting the first pair of faces and extending obliquely relative to the first direction; and
 6. a plurality of nozzles, from which liquid droplets are ejected, the nozzles arranged in the first direction to form a first nozzle array and a second nozzle array, wherein:
 9. the liquid ejection units are arranged such that one of the second pair of faces in one of the liquid ejection units and one of the second pair of faces in another one of the liquid ejection units are confronted with each other, so that the liquid ejection units are overlapped in both of the first direction and a second direction which is perpendicular to the first direction;
 14. the first nozzle array in one of the liquid ejection units and the first nozzle array in another one of the liquid ejection units constitute a first nozzle group, which is continuous as viewed from the second direction, for ejecting a first kind of liquid; and
 18. the second nozzle array in one of the liquid ejection units and the second nozzle array in another one of the liquid ejection units constitute a second nozzle group, which is continuous as viewed from the second direction, for ejecting a second kind of liquid.

1 2. The liquid ejection head as set forth in claim 1, wherein:

2 the casing body is formed with a chamber for accommodating a

3 plurality of vibrator units which extends in a third direction which is orthogonal

4 to the first direction and the second direction;

5 each of the vibrator units comprises:

6 a fixation board, fixed on an inner face of the chamber; and

7 a plurality of piezoelectric vibrators, arranged on the fixation board

8 in the first direction to cause pressure fluctuation in liquid contained in pressure

9 generation chambers which are respectively communicated with the nozzles in

10 one of the first nozzle array and the second nozzle array; and

11 the second pair of faces extend in the third direction.

1 3. The liquid ejection head as set forth in claim 2, wherein the second

2 pair of faces are parallel to each other as viewed from the third direction.

1 4. The liquid ejection head as set forth in claim 2, wherein a dimension

2 of the fixation board in the first direction is greater than a length of each of the

3 first nozzle array and the second nozzle array.

1 5. The liquid ejection head as set forth in claim 1, wherein lengths of the

2 first nozzle array and the second nozzle are identical with each other.

1 6. The liquid ejection head as set forth in claim 1, wherein the first kind

2 of liquid and the second kind of liquid are identical with each other.

1 7. The liquid ejection head as set forth in claim 1, wherein the first kind
2 of liquid and the second kind of liquid are different from each other.

1 8. The liquid ejection head as set forth in claim 1, wherein:
2 each of the liquid ejection units comprises a first liquid reservoir
3 communicated with the nozzles in the first nozzle array, and a second liquid
4 reservoir communicated with the nozzles in the second nozzle array; and
5 the first nozzle array and the second nozzle array are arranged
6 between the first liquid reservoir and the second liquid reservoir, as viewed
7 from a third direction which is orthogonal to the first direction and the second
8 direction.

1 9. The liquid ejection head as set forth in claim 1, wherein:
2 the nozzles are arranged with a constant interval; and
3 the first nozzle array and the second nozzle array are shifted relative
4 to each other in the first direction by a half of the constant interval.

1 10. The liquid ejection head as set forth in claim 1, further comprising a
2 holder, formed with a positioning member which determines positions of the
3 liquid ejection units.